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PHOTOGRAPHIC INTERPRETATION REPORT

SAM LAUNCH COMPLEX KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

25X1D





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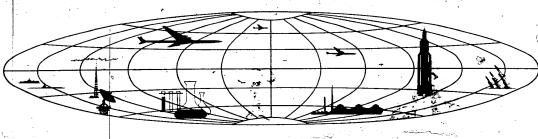
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NPIC/R-5139/64

December 1964

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SAM LAUNCH COMPLEX KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR

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FIGURE 1. KAPUSTIN YAR, VLADIMIROVKA MISSILE TEST CENTER.

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PREFACE

This report has been prepared in response to CIA requirement C-SI4-81,848, which requests an analysis of surface-to-air missile (SAM) facilities at the Kapustin Yar/Vladimirovka Missile Test Center (KY/VMTC) based on KEYHOLE photography of Information is presented herein on 9 of the KY/ 25X1D VMTC SAM facilities (Figure 1) and updates material in 2 earlier reports, and NPIC/R-126/63. 2/ The former report presented a detailed analysis of the KY/VMTC SAM facilities based on TALENT photography of and the latter furnished information on the facilities based on

> In those instances where the stated measarements in the present report differ from those in the referenced reports 1-5/, the mensuration

KEYHOLE coverage through

in this report should be utilized. It is believed that the mensural data herein can be regarded 25X1B 25X1D

INTRODUCTION

Several significant changes at the KY/VMTC 25X1D SAM facilities have occurred since the KEYHOLE coverage. The most significant have occurred at the SA-3 launch area, the electronic research and development site, and the new, unidentified facility near the SAMR&Dlaunch area. Since all 3 areas have been reported on relatively recently 3-5/, only the changes which have not yet been set forth in a detailed NPIC report will be

described here. Other developments at the SAM Launch Complex include new construction at the SAM base support complex and the missile checkout and storage area, and the elimination of Site D of the SA-2 launch area. No significant changes have been noted at the SA-1 launch area and associated YO-YO guidance facility

or the downrange instru-

25X9 25X9

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SA-1 LAUNCH AREA

mentation sites.

The SA-1 launch area (Figure 2) has continued through to appear active. 25X1D On the , 5 unidentified objects were observed on the roads between launch points, at positions where missile transporters or dollies are normally parked at SA-1

launch areas. The small scale of KH-4 photography, precludes identi-

fication of launchers/erectors at the launch points. However, 60 launchers/erectors were identified at the launch area on earlier, TALENT

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25X1D

in place there.

The only change observed at the YO-YO guidance facility associated with the launch area is the addition of a building approximately 115. by 30 feet. This building was first observed un-

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SA-2 LAUNCH AREA

this area (Figure 3) consisted of SAM Sites A-D and one confirmed and one possible bivouac site.

SAM Site D, reported to be under construction in NPIC/R-126/63 2/, has been overgrown by vegetation. Sites A and B, permanent SA-2 training sites, continue to be unoccupied --25X1D no vehicles, vans, or pieces of equipment could be observed in their area in the basis of more complete information from photography, it has been concluded that Site C is not a prototype of an SA-0 site. The actual function of Site C cannot be determined. It may be worth pointing out, however, that if the site is graphically superimposed on either of the fanconfiguration SA-2 sites, it fits adequately into either, a fact which would seem to suggest that Site C is a permanent SA-2 training site.

A new, probable bivouac site has appeared It was first observed since and has continued through show signs of activity. The confirmed and the possible bivouac sites identified in have both been overgrown by vegetation. The confirmed site showed signs of inactivity in

grown; the possible site showed signs of inacbeen overgrown.

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SA-3 LAUNCH AREA

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25X1D

The SA-3 launch area (Figure 3) has shown no significant expansion or additions since except that a tower, probably latticed, has been added at SAM Site B. The tower first ap-

1), the launch positions of the site were unoccupied, and the tower appeared possibly to have one or more unidentified pieces of equipment on it. The height of the tower has been newly deter-

mined to be 85 feet. The earlier height measurement of 30 feet probably was the result of the poor imagery of the photography (Mission and the poorly defined shadow cast by the tower. However, it is also possible that an increase in actual tower height and/or the presence of equipment on the tower is partially responsible for the increased height measurement.

coverage also revealed 25X1D a number of vehicles or pieces of equipment

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in the launch revetments and/or guidance areas of the other sites (A, C, and D) in the launch area. Scarring between Sites A and B has been noted since but no function

for it can-be determined.

m All~4 sites are oriented on a firing azimuth of approximately 350 degrees.

ELECTRONIC RESEARCH AND DEVELOPMENT SITE

Analysis of the electronic research and development site (Figure 4) since preparation of NPIC/R-802/64 4/ has provided the following information. New mensuration of the Leningrad-type elevated platform shows it to be 150 feet in diameter and 65 feet above the ground. The small circular tower centrally located on the platform is 25 feet in diameter and 30 feet high. The large, open hardstand near the platform has been expanded. Three possible, unidentified antennas and several other pieces of equipment or vehicles are visible on this hardstand on

presence of a parabolic dish on the other elevated platform (situated approximately 4,150 feet west of the Leningrad-type platform) has been negated. Unidentified objects can be discerned on this platform, but the small scale of the photography limits analysis of their function. The height of this platform has been newly determined to be 70 feet. The presence of objects on the platform may be partially responsible for the apparently increased height.

An area designated formerly $\frac{4}{4}$ as the location of open storage can now be identified as a building 140 by 45 feet.

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MISSILE CHECKOUT AND STORAGE AREA

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25X1D

The missile checkout and storage area (Figure 6) at the KY/VMTC has continued to expand since 25X1D

The revetment reported earlier as probable

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2/ is now confirmed, and between and a 45- by 25-foot building was constructed within it. Another revetment was added between and a 35- by 30-foot building was constructed within it between A third,

possible revetment, which was not present in

coverage. This revetment had not changed sufficiently by for it to be evaluated as probable or confirmed.

The 250-foot-diameter unidentified area outside the northwest perimeter of the missile checkout and storage area has been allowed to return to vegetation.

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Handie Via TALENT-KEYHOLE TCS-10661/64 Control System Only 25X1D NPIC/R-5139/64 SAM BASE SUPPORT COMPLEX base support section shows significant change BASE SUPPORT. AND HOUSING AREA 25X1D No new sections have been added in this area 25X1D (Figure 8) since Of the 4 sections --the base support, housing, and possible storage

- 6 -

sections and the transloading site -- only the

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MARSHALING AREA

No new buildings, aprons, or other facilities have been added at the SAM marshaling area (Figure 8) since Very little activity

photography, compared with the coverage. The small scale of the photography continues to preclude identification of the vehi-

cles/pieces of equipment in the area.

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REQUIREMENT

CIA. C-SI4-81,848

NPIC PROJECT

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